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MINERAL INDUSTRY SURVEYS

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COPPER IN NOVEMBER 1996

Average daily mine production, assuming 7-days-per-week operation, was essentially unchanged in November. Average daily primary refined production declined by about 8% from the record-high level in October owing to lower production from major refineries. Monthly consumption of refined copper declined by about 6% from October's high level, yet remained 15%, or 30,000 metric tons, above the November 1995 level. Owing to the continued drawing down of refined copper inventories held in LME warehouses, domestic copper stocks fell to their lowest level since August 1995. LME inventories first appeared in U.S. warehouses in July 1995 and reached a peak level in January 1996. Some of the LME inventory reduction was mitigated by a rise in Comex stocks. Comex prices averaged more than 2 cents per pound higher than LME prices during the first 10 months of 1996.

Following several months of relatively stable copper prices, price volatility returned to the copper market in November. In response to tight global supplies for refined copper, prices rose significantly in November, the Comex spot price rising to \$1.10 at month-end, the highest level since June, when prices plummeted following revelations of Sumitomo trading losses.

Copper prices softened again in December, with the Comex spot price briefly dipping below \$1.00 per pound at mid-month. Prices rallied again in January, the Comex spot price reaching \$1.11 during the third week and averaging \$1.08 for the month.

Arimetco International Inc., owners and operators of the Yerington Mine in Nevada and the Johnson Camp Mine in Arizona, announced at year-end that they had filed for reorganization under Chapter 11 of the U.S. Federal Bankruptcy Code. The company cited the compound impact of several problems as the source of their current financial crises including: "serious production problems" at its Yerington Mine that temporarily resulted in lower production and higher production costs; lower copper prices; and costs associated with maintaining and developing non-producing properties¹. In its third quarter report, Arimetco reported a net loss of \$0.3 million for the quarter, compared with a net profit for the third quarter of 1995 of \$2.2 million.

¹Platt's Metals Week. Arimetco Files for Chapter 11. Jan. 1, 1997, p. 1.

${\bf TABLE~1}\\ {\bf SALIENT~STATISTICS~OF~THE~COPPER~INDUSTRY~IN~THE~UNITED~STATES~1/}$

(Metric tons, unless noted)

				1996	
	Source				January-
	table 2/	1995	October	November	November
Production:					
Primary:					
Mine, recoverable	(2)	1,850,000	156,000	150,000	1,730,000
Smelter 3/	(3)	1,240,000	113,000	112,000	1,160,000
Refinery:					
Electrolytic:					
Domestic	(4)	1,310,000	127,000	111,000	1,230,000
Foreign	(4)	77,300	3,790	3,030	86,400
Electrowon	(4)	539,000	51,600	48,000	524,000
Total	(4)	1,930,000	183,000	162,000	1,840,000
Secondary recoverable copper:					
Refineries	(5)	352,000	30,600	26,000	300,000
Ingot makers 4/	(5)	124,000	10,300	10,300	114,000
Brass and wire-rod mills	(5)	713,000	62,400	61,400	668,000
Foundries, etc.	(5)	62,400	5,200	5,200	57,200
Consumption:					
Total apparent	(8)	2,540,000	224,000	NA	NA
Refined (reported)	(7)	2,530,000	244,000 r/	229,000	2,430,000
Purchased copper-base scrap	(9)	1,650,000	145,000 r/	138,000	1,520,000
Stocks at end of period:					
Total refined	(11)	163,000	138,000	126,000	XX
Blister, etc.	(11)	174,000	163,000	168,000	XX
Prices:					
U.S. producer cathode					
(cents per pound)	(12)	138.333	96.873	104.097	109.493
Imports:					
Ores and concentrates 5/	(14)	127,000	6,270	NA	NA
Refined	(14)	429,000	46,100	NA	NA
Exports:					
Ores and concentrates 5/	(15)	239,000	27,100	NA	NA
Refined	(15)	217,000	16,400	NA	NA

r/ Revised. NA Not available. XX Not applicable.

 ${\bf TABLE~2}$ MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES 1/

(Metric tons)

1995				1996				
State	October	November	December	Year total	January	February	March	April
Arizona	104,000	101,000	105,000	1,170,000	104,000	93,000	108,000	103,000
Others 2/	51,000	46,200	45,700	682,000	50,500	47,900	55,800	53,900 r/
Total	155,000	148,000	151,000	1,850,000	155,000	141,000	164,000	157,000

	1996									
State	May	June	July	August	September	October	November	Jan Nov.		
Arizona	107,000	106,000	104,000	106,000	100,000	97,000 r/	94,900	1,120,000		
Others 2/	53,700	56,100	57,400 r/	58,900 r/	58,200	59,300 r/	55,200	607,000		
Total	161.000	163,000	161,000	165.000 r/	158,000	156,000	150,000	1.730.000		

r/ Revised.

^{1/} Data are rounded to three significant digits, except prices; may not add to totals shown.

^{2/} Numbers in parentheses refer to the detailed tables where these data are located.

^{3/} From domestic and foreign ores.

 $^{4/\,1996}$ monthly data estimated based on 1995 monthly average.

^{5/} Copper content.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Includes production from California, Idaho, Michigan, Missouri, Montana, Nevada, New Mexico, Utah, and Wisconsin.

 ${\bf TABLE~3}$ COPPER 1/ PRODUCED AT SMELTERS IN THE UNITED STATES, BY SOURCE 2/

(Metric tons, copper content)

	Domestic and		
Period	foreign ores	Scrap	Total
1995:	-		
November	105,000	33,700	139,000
December	106,000	35,100	141,000
JanNov.	1,140,000	323,000	1,460,000
Year total	1,240,000	358,000	1,600,000
1996:			
January	113,000	29,200	142,000
February	108,000	29,800	138,000
March	101,000	33,300	134,000
April	105,000	28,200	133,000
May	94,300	30,600	125,000
June	104,000	30,400	134,000
July	103,000	32,300	136,000
August	97,200	29,100	126,000
September	106,000	31,500	138,000
October	113,000	33,200	146,000
November	112,000	29,000	141,000
JanNov.	1,160,000	337,000	1,490,000

^{1/} Includes blister, anode and black copper from primary or secondary sources.

 ${\bf TABLE~4}$ PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY 1/

(Metric tons)

		Primary 1	naterials			Scrap		
	Electrolyt	ically			Electro-			-
	refine	d 2/			lytically	Fire		Total
Period	Domestic 3/	Foreign	Electrowon	Total	refined 2/	refined	Total	refined
1995:								
November	116,000	6,330	49,600	172,000	16,100	12,900	29,000	201,000
December	112,000	7,340	50,700	170,000	16,000	11,100	27,100	197,000
JanNov.	1,200,000	69,900	489,000	1,760,000	197,000	126,000	324,000	2,080,000
Year total	1,310,000	77,300	539,000	1,930,000	215,000	137,000	352,000	2,280,000
1996:								
January	117,000	11,300	47,500	176,000	14,300	13,400	27,700	204,000
February	107,000	9,990	43,500	161,000	13,700	12,800	26,400	187,000
March	112,000	9,570	45,900	168,000	14,200	14,000	28,200	196,000
April	115,000	9,790	47,400	173,000	14,200	10,400	24,700	197,000
May	112,000	9,500	50,700	172,000	16,900	12,700	29,600	202,000
June	98,800	5,180	48,300	152,000	17,300	13,700	30,900	183,000
July	115,000	8,090	48,200	172,000	18,100	6,310	24,400	196,000
August	107,000	7,370	47,100	161,000	14,000	11,000	25,000	186,000
September	109,000	8,820	45,900	163,000	12,900	13,900	26,800	190,000
October	127,000	3,790	51,600	183,000	17,100	13,500	30,600	213,000
November	111,000	3,030	48,000	162,000	15,000	10,900	26,000	188,000
JanNov.	1,230,000	86,400	524,000	1,840,000	168,000	133,000	300,000	2,140,000

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Based on source of material at smelter level.

^{3/} Includes fire-refined copper.

${\it TABLE 5}$ COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASED SCRAP 1/

(Metric tons, copper content)

					Brass	and			
	Refineri	ies 2/	Ingot mal	xers 3/	wire-rod	mills	Foundries	, etc. 4/	
Period	New scrap	Old scrap	Total 5/						
1995:									
November	10,100	18,900	2,890	7,440	54,600	3,650	2,240	2,960	103,000
December	8,870	18,200	2,890	7,440	45,400	3,650	2,240	2,960	91,700
Jan Nov.	103,000	222,000	31,800	81,800	618,000	45,600	24,600	32,600	1,160,000
Year total	112,000	240,000	34,700	89,200	664,000	49,300	26,900	35,600	1,250,000
1996:									
January	11,100	16,600	2,890	7,440	59,400	3,350	2,240	2,960	106,000
February	9,790	16,600	2,890	7,440	54,000	2,980	2,240	2,960	99,000
March	11,100	17,200	2,890	7,440	57,600	2,660	2,240	2,960	104,000
April	8,200	16,500	2,890	7,440	57,400	4,240	2,240	2,960	102,000
May	10,000	19,600	2,890	7,440	60,100	4,230	2,240	2,960	109,000
June	10,900	20,000	2,890	7,440	58,700	4,960	2,240	2,960	110,000
July	6,010	18,400	2,890	7,440	51,500	3,880	2,240	2,960	95,300
August	8,310	16,700	2,890	7,440	56,700	3,870	2,240	2,960	101,000
September	10,300	16,500	2,890	7,440	55,300	3,850	2,240	2,960	101,000
October	10,900	19,800	2,890	7,440	58,700	3,640	2,240	2,960	109,000
November	8,730	17,200	2,890	7,440	56,800	4,580	2,240	2,960	103,000
Jan Nov.	105,000	195,000	31,800	81,800	626,000	42,300	24,600	32,600	1,140,000

- 1/ Data are rounded to three significant digits; may not add to totals shown.
- 2/ Electrolytically refined and fire-refined scrap based on source of material at smelter level.
- 3/ Data no longer collected monthly; 1995 and 1996 data estimated based on 1995 annual data.
- 4/ Estimate based on 1995 annual data.

 ${\it TABLE~6}\\ {\it PRODUCTION, SHIPMENTS, AND STOCKS~OF~BRASS~AND~WIRE-ROD~MILL~SEMIFABRICATES~1/2}\\ {\it Constant of the production of the p$

(Metric tons, gross weight)

	Produ	action	Ship	ments	Stocks, end	l of period
Period	Brass mills	Wire rod mills	Brass mills	Wire rod mills	Brass mills	Wire rod mills
1995:						
November	113,000	143,000	118,000	141,000	46,400	67,300
December	105,000	134,000	98,600	132,000	52,500	69,100
Jan Nov.	1,310,000	1,680,000	1,330,000	1,690,000	XX	XX
Year total	1,420,000	1,820,000	1,430,000	1,820,000	XX	XX
1996:						
January	120,000	144,000	122,000	146,000	50,100	67,100
February	128,000	153,000	130,000	157,000	48,800	63,500
March	144,000	171,000	142,000	160,000	51,300	74,300
April	131,000	157,000	133,000	175,000	49,400	55,800
May	130,000	173,000	129,000	165,000	51,000	63,200
June	136,000	163,000	132,000	151,000	54,900	75,200
July	114,000	139,000	116,000	152,000	52,300	62,900
August	130,000	142,000	133,000	156,000	49,700	48,500
September	135,000	163,000	136,000	158,000	48,900	53,200
October	139,000 r/	180,000	139,000 r/	184,000	48,900 r/	50,100
November	136,000	175,000	135,000	170,000	49,400	54,700
Jan Nov.	1,440,000	1,760,000	1,450,000	1,780,000	XX	XX

r/ Revised. XX Not applicable.

^{5/} Does not include an estimate, based on reported 1995 data, of 3,100 tons per month from new scrap and 2,330 tons per month from old scrap of copper recovered from scrap other than copper-base.

 $^{1/\,\}mbox{Data}$ are rounded to three significant digits; may not add to totals shown.

TABLE 7 CONSUMPTION OF REFINED COPPER 1/

(Metric tons)

Period and item	Wire rod mills	Brass mills 2/	Other plants 3/	Total
1995:	_			
November	150,000	44,400	4,630	199,000
December	132,000	40,700	4,630	177,000
JanNov.	1,810,000	492,000	51,000	2,360,000
Year total	1,950,000	533,000	55,600	2,530,000
1996:				
January	154,000 r/	45,100	4,630	204,000 r/
February	165,000 r/	47,200	4,630	216,000 r/
March	181,000 r/	56,400	4,630	242,000 r/
April	162,000 r/	47,500	4,630	214,000 r/
May	184,000 r/	47,500	4,630	236,000 r/
June	164,000 r/	49,600	4,630	218,000 r/
July	147,000 r/	43,600	4,630	195,000 r/
August	154,000 r/	50,700	4,630	209,000 r/
September	162,000 r/	55,300 r/	4,630	222,000 r/
October	185,000	54,100 r/	4,630	244,000 r/
November:	-			
Cathodes	177,000	30,900	1,120	209,000
Wire bars		W	W	W
Ingots and ingot bars		1,610	1,660	3,270
Cakes and slabs		4,230	W	4,230
Billets and other		11,300	1,860	13,200
Total	177,000	48,000	4,630	229,000
JanNov.	1,830,000	545,000	51,000	2,430,000

r/Revised. W Withheld to avoid disclosing company proprietary data; included in "Billets and other."

TABLE 8 U.S. APPARENT CONSUMPTION OF COPPER 1/

(Metric tons)

Period	Refined copper production	Copper in old scrap 2/	Net refined imports	Stock change during period	Apparent consumption
1995:	*	•	*		*
November	172,000	35,300	31,900	5,380	234,000
December	170,000	34,600	30,800	30,900	205,000
JanOct.	1,590,000	373,000	149,000	8,250	2,100,000
Year total	1,930,000	442,000	211,000	44,500	2,540,000
1996:					
January	176,000	32,700	29,400	28,600	210,000
February	161,000	32,300	24,800	(21,400)	239,000
March	168,000	32,600	35,500	(7,120)	243,000
April	173,000	33,400	37,300	10,800	232,000
May	172,000	36,500	46,000	(26,400)	281,000
June	152,000	37,700	33,900	(7,580)	232,000
July	172,000	35,000	38,000	23,200	222,000
August	161,000	33,300	47,100	(6,850)	248,000
September	163,000	33,100	47,800	(13,000)	257,000
October	183,000	36,100	29,700	(4,970)	254,000
November	162,000	34,500	NA	(12,500)	NA
JanOct.	1,680,000	343,000	370,000	(24,700)	2,420,000

NA Not available.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} In 1995, brass mills consumed 2,210 tons of refined lead, 706 tons of pig tin, 3,870 tons of refined nickel, and 64,100 tons of slab zinc.

^{3/} Monthly consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers; estimated based on 1995 annual data.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

²/ Includes reported monthly production of copper from old scrap of copper-base and of non-copper-base materials and estimates for annual reporters based on 1995 data.

TABLE 9 CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/

(Metric tons, gross weight)

	Smelter	S			Brass an	ıd			
	and refiner	ries	Ingot make	ers 2/	wire-rod mi	lls 3/	Foundrie	es, etc. e/	Total scrap
Period	New scrap 2/	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	used
1995:									
November	12,300	29,400	3,870	11,300	68,300	4,380	2,570	3,390	136,000
December	10,100	32,100	3,870	11,300	57,100	4,460	2,570	3,390	125,000
Jan Nov.	118,000	353,000	42,500	124,000	770,000	54,900	28,300	37,300	1,530,000
Year total	128,000	385,000	46,400	136,000	827,000	59,400	30,800	40,600	1,650,000
1996:									
January	12,600	26,600	3,870	11,300	74,300	4,100	2,570	3,390	139,000
February	10,700	28,200	3,870	11,300	68,200	3,830	2,570	3,390	132,000
March	11,700	32,200	3,870	11,300	72,300	3,570	2,570	3,390	141,000
April	9,680	26,800	3,870	11,300	71,900	5,000	2,570	3,390	134,000
May	10,800	31,400	3,870	11,300	75,500	5,100	2,570	3,390	144,000
June	13,200	36,300	3,870	11,300	73,500	5,990	2,570	3,390	150,000
July	8,120	27,900	3,870	11,300	65,500	4,790	2,570	3,390	127,000
August	10,000	28,300	3,870	11,300	72,000	4,880	2,570	3,390	136,000
September	12,700	27,000	3,870	11,300	70,100	5,010	2,570	3,390	136,000
October	11,600	33,500	3,870	11,300	74,400 r/	4,510	2,570	3,390	145,000 r/
November	10,700	29,000	3,870	11,300	72,000	5,530	2,570	3,390	138,000
Jan Nov.	122,000	327,000	42,500	124,000	790,000	52,300	28,300	37,300	1,520,000

e/ Estimated. r/ Revised.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Data for 1995 and 1996 are estimated from 1995 annual data.

^{3/} Consumption at brass and wire-rod mills assumed equal to receipts.

${\bf TABLE~10}$ CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/ 2/

(Metric tons, gross weight)

	1995	<u> </u>		1996		
Scrap type and processor	JanNov.	Year total	September	October	November	JanNov
No. 1 wire and heavy:						
Smelters and refiners	149,000	161,000	14,600	14,300	11,900	139,000
Brass and wire-rod mills	350,000	375,000	27,300	31,200 r/	30,800	332,000
No. 2 mixed heavy and light:						
Smelters and refiners	205,000	225,000	14,500	20,300	16,800	194,000
Brass and wire-rod mills	31,100	33,400	3,070	2,500	2,500	32,400
Total unalloyed scrap:						
Smelters and refiners	354,000	386,000	29,100	34,700	28,700	333,000
Brass mills	381,000	408,000	30,400	33,700	33,300	364,000
Red brass: 3/						
All plants	60,900	66,200	5,400	5,430	5,430	59,900
Leaded yellow brass:						
All plants	341,000	367,000	33,700	36,200	33,800	371,000
Yellow and low brass:						
Smelters and refiners	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
Brass mills	42,900	47,500	4,400	4,020	4,020	46,800
Cartridge cases and brass:						
Smelters and refiners						
Brass mills	46,000	49,400	3,750	3,860	3,860	41,300
Auto radiators:						
Smelters and refiners	66,900	73,000	6,080	6,080	6,080	66,900
Bronzes:						
Smelters and refiners						
Brass mills	10,700	11,300	868	1,030	1,070	10,200
Nickel-copper alloys:						
Smelters and refiners						
Brass mills	16,300	17,700	3,380	1,250	1,400	20,900
Low grade & residues:						
Smelters and refiners	84,100	91,800	7,620	7,360	7,940	81,500
Other alloy scrap: 5/						
Smelters and refiners	36,600	39,700	3,290	3,380	3,350	37,800
Brass mills	3,610	3,920	309	460 r/	357	4,090
Total alloyed scrap:						
Smelters and refiners	284,000	310,000	25,800	25,600	26,200	283,000
Brass mills	443,000	478,000	44,700	45,200	44,000	477,000
Total scrap:						
Smelters and refiners	638,000	695,000	54,900	60,300	54,800	616,000
Brass and wire-rod mills	825,000	886,000	75,100	78,900 r/	77,300	842,000
r/ Davisad						

r/ Revised.

^{1/} Does not include: consumption by foundries, chemical plants and miscellaneous manufacturers, estimated to total about 6,000 tons of scrap per month in 1995; consumption of home scrap at brass mills which averaged 57,200 tons per month in 1995. Monthly data include estimates of about 30,000 tons of scrap per month consumed by ingot makers and several smelters that report only on an annual basis.

^{2/} Data are rounded to three significant digits; may not add to totals shown.

^{3/} Includes composition turnings, silicon bronze, zincy bronze, railroad car boxes, cocks and faucets, gilding metal and commercial bronze.

^{4/} Withheld to avoid disclosing company proprietary data; included in "Other alloy scrap."

^{5/} Includes refinery brass, beryllium copper, phosphor copper and aluminum bronze.

TABLE 11 COPPER STOCKS AT END OF PERIOD 1/

(Metric tons)

				Refin	ned copper			
	Crude		Wire rod					Total
Period	copper 2/	Refineries 3/	mills 3/	Brass mills 3/	Other 4/	Comex 5/	LME 6/	refined
1995:								
November	170,000	37,900	26,700	11,700	3,540	4,900	47,500	132,000
December	174,000	38,000	24,800	7,110	3,540	21,500	68,200	163,000
1996:								
January	172,000	35,700	34,500	10,400	3,540	11,000	96,700	192,000
February	177,000	31,700	22,600	11,200	3,540	11,700	89,600	170,000
March	153,000	33,800	19,500	9,820	3,540	12,600	84,000	163,000
April	171,000	35,600	25,500	11,300	3,540	18,800	79,400	174,000
May	166,000	35,500	19,200	9,840	3,540	12,000	67,500	148,000
June	162,000	33,500	13,100	12,600	3,540	6,880	70,400	140,000
July	154,000	41,700	29,700	13,400	3,540	16,100	58,700	163,000
August	159,000	34,000	25,800	13,400	3,540	20,100	59,600	156,000
September	161,000	32,400	19,400	12,500	3,540	19,700	56,000	143,000
October	163,000	33,900	31,000	12,400	3,540	28,600	29,200	138,000
November	168,000	33,400	30,500	11,700	3,540	26,000	20,900	126,000

- 1/ Data are rounded to three significant digits; may not add to totals shown.
- 2/ Copper content of blister and other materials in transit and in process of refining.
- $3/\,Stocks$ of refined copper as reported; no estimates are made for non-respondents.
- 4/ Monthly estimates based on reported and 1995 annual data, comprising stocks at secondary smelters, chemical plants, foundries, and miscellaneous manufacturers.
- 5/ Commodity Exchange Inc., New York.
- 6/ London Metal Exchange Ltd., U.S. warehouses.

TABLE 12 AVERAGE PRICE OF COPPER IN THE UNITED STATES AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

	U.S. producers deli	vered price	Comex	L.M.E. cash price		
Period	Cathode 1/	Wirebar 2/	first position 3/	Grade A		
1995:						
October	131.380	139.995	127.996	127.582		
November	139.860	148.500	136.500	134.986		
December	135.103	143.778	131.778	132.683		
Average	138.333	146.724	134.717	133.122		
1996:						
January	121.431	130.090	118.091	118.622		
February	120.020	128.668	116.668	115.077		
March	121.540	130.200	118.200	116.140		
April	122.628	131.286	119.286	117.707		
May	126.667	135.327	123.327	120.527		
June	107.828	116.538	104.488	98.447		
July	94.007	102.693	90.667	90.006		
August	95.479	104.139	92.139	91.072		
September	93.848	102.623	90.508	88.026		
October	96.873	105.533	95.533	88.935		
November	104.097	112.776	100.776	101.149		
Average	109.493	118.170	106.335	104.155		

^{1/} Listed as "U.S. producer cathode."

Sources: Platt's Metals Week and American Metal Market.

^{2/} Listed as "Electrolytic wirebar (Warrenton Refining Co.)."

^{3/} Listed as "Comex high grade first position."

TABLE 13 NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

			Dealers (New York)				
	Brass mills	Refiners		Red brass turnings			
Month	No. 1 scrap	No. 2 scrap	No. 2 scrap	and borings			
1995:							
November	125.91	106.96	91.80	66.00			
December	120.89	103.96	92.00	66.00			
Average	123.28	104.73	91.26	63.38			
1996:	-						
January	112.46	95.09	87.98	57.86			
February	111.85	93.83	89.75	57.00			
March	113.06	96.54	92.53	57.66			
April	114.20	96.99	84.43	58.00			
May	116.25	97.10	84.59	57.84			
June	96.95	83.00	77.85	55.35			
July	88.58	69.76	64.43	46.79			
August	90.85	73.93	64.00	46.09			
September	88.69	72.56	64.00	46.00			
October	89.21	73.04	64.00	46.00			
November	97.04	79.22	64.63	46.63			
Average	101.74	84.64	76.20	52.29			

Source: American Metal Market.

 ${\bf TABLE~14}$ U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

	Ore a	nd concen	trate	Matte, a	sh and pre	cipitates	Blis	ter and an	iodes	Refined			
Country or		19	96	1996			19	996	1996				
territory	1995	Oct.	JanOct.	1995	Oct.	JanOct.	1995	Oct.	JanOct.	1995	Oct.	JanOct.	
Brazil										15,500		13,600	
Canada	(2/)		8,980	590		212	40,000	134	3,620	283,000	32,000	298,000	
Chile	80,400	6,250	58,700				38,000	2,450	42,900	29,100	8,560	88,400	
Germany										12,300	(2/)	17	
Japan				4			(2/)		(2/)	7,740	394	3,030	
Malaysia				55		79							
Mexico	11,700	21	3,680	2,190	116	1,700	2,350		18,800	58,600	1,600	28,800	
Peru	34,900						10,400	618	6,950	9,860	3,560	57,500	
Russia										11,600		14,600	
Spain							3,260		2,530				
Taiwan				1	(2/)	23					(2/)	(2/)	
Other	2		3	13		1			649	620	22	6,400	
Total	127,000	6,270	71,300	2,860	116	2,020	94,100	3,200	75,400	429,000	46,100	511,000	

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 15
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

	Ore :	and concentra	ate	Matte, ash and precipitates			Bliste	er and anode	es	Refined		
Country or	_	199	96	_	199	96	1996				1996	
territory	1995	Oct.	JanOct.	1995	Oct.	JanOct.	1995	Oct.	JanOct.	1995	Oct.	JanOct.
Belgium	1,980			1,330		3	81		239	2,260	3	40
Canada	123,000	5,700	73,200	30,400	1,500	29,200	24,800	1,160	16,300	22,900	2,480	24,600
China	37,100		51,800	17		2	211		44	5,130	224	233
Germany		3	75	152		1	84	39	424	629	31	140
Ghana						9	43	44	47			25
Hong Kong	_ 		16	48		29	650	276	648	4,710	14	505
Italy			8				245		426	1,580		2,150
Japan	53,500	17,000	28,000	1,880	94	1,950	363		390	52,800	2,200	27,600
Korea, Republic of	5,520		2	10		15	1,440		420	11,200	522	3,280
Malaysia									(2/)	4,110	221	5,840
Mexico	160		2,340	763	566	1,940	219	66	363	2,710	794	4,720
Peru	1,180		1,750	9								129
Philippines	16,000						20		17	3		
Singapore	_ 5			18	1	1	39		40	12,700		1,380
Spain		2,800	2,800			6	2					7
Taiwan				201			137		161	75,000	8,240	47,000
Thailand	. 34						124		58	18,700	1,590	22,500
Venezuela							860		6	27		25
Other	341	1,560	1,800	220	5	531	181 r/	5	285	3,030	70	770
Total	239,000	27,100	162,000	35,100	2,170	33,700	29,500	1,590	19,800	217,000	16,400	141,000

r/ Revised.

Source: Bureau of the Census.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Less than 1/2 unit.

TABLE 16 U.S. COPPER SCRAP TRADE 1/

(Metric tons, gross weight)

			Imp	orts		Exports							
	Unalloyed 1996				Alloyed 1996			Unalloyed 1996			Alloyed 1996		
Country or													
territory	1995	Oct.	JanOct.	1995	Oct.	JanOct.	1995	Oct.	JanOct.	1995	Oct.	JanOct.	
Belgium	11			294			2,730	109	8,570	3,030	81	1,200	
Canada	36,600	4,010	32,700	64,600	5,620	49,000	110,000	9,400	84,400	42,600	3,950	34,900	
Chile	9,270	997	9,740	66		129				7		5	
China				21		62	28,000	1,200	11,300	50,100	1,910	22,100	
Colombia	325	26	471	1,280	21	2,370				9		3	
Costa Rica	848	80	1,110	524	16	348							
Dominican Republic	702	62	449	1,860	119	1,680							
Germany			4	64		122	1,580		3,280	4,310	141	4,710	
Hong Kong				23		114	31,400	2,030	24,800	30,900	3,640	40,200	
India							7,020	96	3,800	42,500	2,770	24,700	
Japan		2	2	124	16	51	20,000	1,790	15,700	16,700	1,700	14,500	
Korea, Republic of				14			10,300	155	4,450	24,100	834	9,240	
Mexico	32,800	2,110	24,300	50,500	3,180	36,700	6,470		2,450	1,710	168	3,740	
Panama	1,170	80	819	776	140	940							
Peru	166	21	643	116	256	692				6		612	
Switzerland							17		2,760	140		18	
Taiwan		3	59	2,940	108	1,220	1,680	160	894	3,730	246	3,890	
Thailand				8		36			37	2,490	214	1,930	
United Kingdom	111		(2/)	201	179	1,170	338		194	2,810	77	351	
Venezuela	3,260	68	2,380	2,860	113	2,100				22		40	
Other	2,830	276	2,640	7,290	692	6,870	3,570	14	532	8,220 r/	185	5,840	
Total	88,100	7,730	75,300	134,000	10,500	104,000	223,000	15,000	163,000	233,000	15,900	168,000	

r/ Revised.

Source: Bureau of the Census.

^{1/} Data are rounded to three significant digits; may not add to totals shown.

^{2/} Less than 1/2 unit.